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President's Message

A Review of Legislative Activity

A review of the recent legislative session in Springfield brings one to the conclusion that it was a very good session from an overall standpoint. There was no legislation passed in this session that adversely affects the engineering profession. On the other hand there was some passed that is to our advantage.

Robert W. Wallace who is chairman of the Legislative Action Committee, was in attendance at nearly all legislative sessions and kept a close watch on all legislation that might affect our profession. He secured copies of the weekly Legislative Digest and had them mailed to the chairmen of all chapter Legislative Analyzing Committees where the chapters had supplied the names of such chairmen. In addition to this he also sent out many copies of bills to individual engineers who were interested and invited suggestions as to method of handling this legislation.

A brief summary of legislation affecting engineers is as follows:

House Bill No. 392

This is the Act regulating practice of professional engineering. An amendment was passed which does away with the grandfather clause. We thought it was no longer necessary to keep the grandfather clause in this Act and that from now on all professional engineers license should be issued by examination only.

House Bill No. 564

This Bill provided for extensive amendments to the Architects' Act—many amendments which were considered controversial, in that they affected professional engineers. Opinions as to the effect of these amendments on the practice of professional engineering are varied somewhat, but it was the general opinion that the passage of these amendments was not desirable. These facts were presented to the Committee on Efficiency and Economy which had consideration of this Act and a subcommittee was appointed to make a further study of these amendments. Due to the rush of business in the latter days of this legislative session, the subcommittee did not report on these amendments. Therefore, it was not necessary for us to take any further action.

House Bill No. 665

This Bill provided for the licensing and regulation of plumbers. As it was originally written, it specified that

planning of plumbing systems could only be done by plumbers. We succeeded in having this Act amended to the satisfaction of all parties concerned so that professional engineers can still design and supervise plumbing installations.

Senate Bills 96 and 97

These Bills provided for increase in truck license fees and increase in motor fuel tax respectively. They together formed the Governor's program for raising increased revenue to rehabilitate Illinois fast deteriorating highway system. While we did not recommend any specific amounts, our Society was on record as approving a highway program which would preserve our highways and make the Illinois system one of the best in the country. While both of these acts were amended to compromise the Governor's program somewhat, I believe that they are a definite step forward in highway legislation.

Senate Bill No. 464

This Act provides for the inspection of boilers outside the City of Chicago and creates a Board of Examiners for this inspection. Our Vice President, Douglas Spicer, was successful in having this Bill amended to provide for a professional engineer on this Board of Examiners.

Senate Bill 621

This Bill establishes a new classification and salary schedule for all State employees. Professor Ellis Danner of the University of Illinois was very active and effective in assisting the highway department in their new classification of persons and establishing of salary schedules. The Civil Service Commission which was drafting this Bill did not go as far in the classification of titles and increases in salary as the Illinois Society thought they should. Then I personally intervened with the Governor on two occasions in this matter. I wish to report that the Governor was very cooperative and took a very enlightened view of this matter. It is his desire to build up a very fine engineering department in the State so that they can receive the prestige and compensation that is due it.

SUBSCRIPTION RATES

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As the Bill was finally drafted and presented to the Legislature it did not go quite as far as we thought it should and we succeeded in having it amended in the closing days of the Legislature to increase the top salary of the Chief Highway Engineer from \$13,080 to \$18,000 per year. It is our belief that this will provide an added incentive to the highway engineers of Illinois and make it possible for the Department to employ a sufficient number of qualified engineers.

There was a record number of bills considered at this session of the Legislature—many of them of course, were of some interest to engineers, but the ones which I have mentioned above were of general interest to the entire profession.

It is my opinion that we did very well at this session, not only in legislation but in establishing better relations with the legislators.

V. E. GUNLOCK, *President, I.S.P.E.*

VOX SECRETARII

ASSISTANT SECRETARY ROBERTS

Ladies' Auxiliaries

During the Annual Meeting of the National Society of Professional Engineers at Minneapolis in June, it was reported that much interest was aroused concerning the need of Ladies' Auxiliaries composed of wives of Society Members. The ladies who accompanied their mates to Minneapolis held several meetings at which the idea was discussed. The results of the talks by the ladies, and the discussion from the floor of the Convention, clearly demonstrated that such an organization would be helpful at all levels of the Society. It was thought advisable that when such an organization is formed by the ladies, it should grow from the Chapter level.

The topic of Ladies' Auxiliaries was to have been brought up for discussion at the Illinois Society May Board of Direction Meeting, but it had to be postponed to a later date because time ran out before the subject could be presented.

The primary purpose of the "Wigwam Engineers" would be social, but it is conceivable that the ladies could be of much help in other ways. For example, the distaff side of the A. M. A. is credited with a major assist in the doctors fight against socialized medicine. In many communities, the ladies of the doctors give valuable service to the medical association through their work in hospital fund drives, blood bank work, out patient clinics and in numerous other ways. It is possible that the wives of engineers would be willing and able to help their mates in their extra curricular professional work.

Both the State and National Society can be of help in the formation and the continuity of the ladies groups but the beginning of any auxiliary should be in the Chapter. It is possible that one group of ladies would want to hold their meetings at the same time and near the regular Chapter meeting, while some other group might feel it desirable to hold their meetings in the afternoon at an entirely different time and place. The im-

portant thing now is for the Chapters to propose a ladies group. The suggestion is made that the Chapter Executive Committee call together five or six wives of Chapter Members and explain to them the desirability of their banding themselves together at once for social purposes with the view that a ladies group might be of some material assistance to the engineers at some future time. If any of you ladies read this, begin asking your husband when and where the ladies will be called together.

Eventually there should be a "Wigwam Engineers Chapter" for each of the sixteen Chapters in Illinois. Which Chapter will have the honor of promoting the first Wigwam?

Miscellany

Vacation: (I just had one) the dictionary says, "a time of rest and freedom from work." Not true of a modern vacation. There is little rest and as much or more work but of a different kind. But in spite of the fact that it usually costs more than anticipated, a vacation is necessary and worth what it costs. . . . Applications are coming into the office at the rate of about three per week—should be at least 16 per week or one per week from each Chapter. . . . Get two this week for your Chapter. . . .

COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 185.5 for June, 1951. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

STATE WATER SURVEY TO DEDICATE NEW BUILDING

A conference will be held October 1-3, 1951, celebrating the dedication of the new laboratory and office building of the State Water Survey Division of the Illinois Department of Registration and Education, on the campus of the University of Illinois, Champaign-Urbana. The Conference will be in three parts devoted respectively to: Hydrology, Water Treatment, and Radar-Meteorology. The Hydrologic conferences will be held in special rooms in the Illini Union Building. The Chemistry conference will be held in the new East Chemistry Building auditorium, and the Radar-Meteorology conference will be held at the nearby Allerton Estate.

Dr. A. M. Buswell, Chief of the Illinois State Water Survey Division, announces that leaders in all three fields have been engaged to address the conference delegates. A dedication dinner will be held in the Ballroom of the Illini Union Building on October 2.

For further information address a request to State Water Survey, University of Illinois, Champaign.

Anyone who thinks that Communism, which advocates the common ownership of all property, is a workable idea should be a subscriber on a rural party line with seven other families.

—*Christian Farmer*

News From Chapters

Madison County Chapter

Meeting was called to order by President Shanahan in the Quonset Bldg. of Shell Oil Co., at Roxana, on May 8, 1951. Guests and new members were introduced, with 12 members and two applicants present.

Minutes of the previous meeting were approved as read.

A letter from H. V. McCoy, Director of the Collinsville Civil Defense Council, was read. This was a letter of thanks for the file of member-information, for the Collinsville Civil Defense area.

A matter of new business was brought out by Mr. Flagg, concerning proposed legislation to require approval of building plans by the Master Plumbers. Mr. Thatcher read portions of the revised act, quoting House Bills 665 and 247.

Mr. Graham spoke of plans for the next meeting, and introduced the speakers of the evening. Mr. Cobaugh and Mr. Gruner, of the Harbison-Walker Refractories Co., spoke of their subject, "Refractories," as ranking second only to agriculture in basic necessity. A series of slides were shown to illustrate their application, 60 per cent of which is in the steel industry. Recent developments in cast refractories were illustrated with photographs of the "gunite" method of building such special installations.

Refreshments were served in the cafeteria after adjournment.

Meeting was called to order by President Shanahan in the conference room of the Bell Telephone Company's Central Office at Alton on April 10, 1951. Sixteen members were present, and two prospective members submitted applications.

The question of Annual Meeting time was discussed, with no definite action by the group.

A letter from Capital Chapter inviting fellow engineers to attend their meeting with legislators was read, and several members expressed interest in attending.

Charles Graves then presented Jim Earle, the Assistant Manager for Bell at Alton, and the party was divided into groups of five for the tour of the Telephone Office. The new service of Long Distance Dialing was carefully explained, as well as other features of this very modern plant.

The announced subject of the program for our meeting of June 12, 1951, was "A Need for a Revised Building Code," by Alton's Fire Chief James J. Lewis, at his office, 314 State Street. Some members arrived early, undoubtedly spurred by curiosity about the fire-fighting equipment housed at Station No. 1. At 8:30 the meeting was called to order by President Shanahan, who called for reports of committees. Chapter Representative Willis reported on the May 19th meeting of the Board of Direction at Springfield, emphasizing the matters of advertising, and engineering unity.

Coffee had been prepared in the firehouse kitchen, and with other lunch was made available throughout the remainder of the meeting.

Chief Lewis spoke informally, touching also on the subject of Civil Defense (which program seems to be bogging down from lack of funds, and, in some cases, from appointment of men who are too busy otherwise. Another need is a standardized alarm system.) He referred to Ohio, where the Civil Defense effort is coordinated with the established civilian agencies of Fire Department, etc. He told of a New Jersey test, under simulated bombing conditions, with resultant obstruction of traffic, and the time required to clear the way with bulldozers, etc.

The meeting continued with informal discussion of standardization, water supply, volunteer organizations, and the dependability of old-time equipment. A copy of the Chicago Building Code was available for discussion and comparison of certain features with the Fire Marshal's Code.

L. K. MEYER, *Secretary*

Capital Chapter

Thirty-six members and 16 guests were present at the May meeting held at the American Legion home on May 29, 1951. New members and guests were introduced by President Hudson and letters from legislators expressing their appreciation of the May 1st meeting were read. A mimeographed report by the Chapter Representative on the Board of Direction meeting was passed to all present.

Brief committee reports were made by William Russell, James Williams, and J. P. Murphy, chairmen of the legislative committee, civic affairs committee, and civil defense committee respectively.

President Hudson introduced the speaker of the evening, Alex VanPraag, Jr., Past President of N.S.P.E., who told of the work of the committee on "Engineering Unification," their problems and their progress. After a question and answer period, coffee and doughnuts were served. Meeting adjourned at 10:00 p.m.

L. F. RYBURN, *Secretary*

Central Illinois Chapter

The May meeting of the Central Illinois Chapter of the Illinois Society of Professional Engineers was held on Thursday evening, May 24th, at the Staley Club House, with a dinner at 6:30 p.m. There were 31 members and guests present, one new member, Mr. Dale Zimmer, and a prospective new member, Mr. Armstrong of Warren Van Praag Co.

Announcement was made regarding the National Society Annual convention to be held in Minneapolis on June 14, 15, and 16. Since the subject of unity in Engineering Societies will be up for considerable discussion at this convention, a motion was made by John

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Askren that we accept plan D as our first choice and plan C as our second choice. Motion was seconded and carried, and the Sec'y instructed to inform our National Director, Mr. W. A. Oliver.

A special guest for the evening was Mr. J. J. Woltman, one of our Chapter members, from Bloomington, Ill. He was introduced by a former associate for a number of years, Mr. John R. Gardner of Warren & Van Praag Co. A resolution was presented to the Chapter acknowledging the honor bestowed upon us at the last State Convention when Mr. Woltman was made an Honorary Member of the State, and recommending that he now be made an Honorary Member of the Central Illinois Chapter. Motion was made, seconded and carried that this Resolution be adopted.

Due recognition was also paid to Dr. R. E. Greenfield who was recently elected to the office of Vice President in charge of Manufacturing for the A. E. Staley Mfg. Co.

Our speaker of the evening was Mr. John D. Coleman of Dayton, Ohio, Vice President of the National Society of Professional Engineers. He gave us a very interesting and instructive discussion on the workability of the Engineering Registration Law, particularly from his experiences in the state of Ohio.

The meeting adjourned at 9:30 p.m.

FLOYD E. TROXEL, *Secretary*

To recognize what things you know and what things you do not know—this is wisdom.

—Confucius

NOTES FROM THE CHICAGO CHAPTER

GEORGE L. DEMENT

Honestly Are You An Engineer?

The above subject was discussed in an article that appeared in the **American Engineer** for July 1951 by Al Graf, Member of the Chicago Chapter.

Al is the second member of the Chicago Chapter who has had an article printed in the **American Engineer** this year. The import of the article was that an engineer can gain prestige, security and happiness from his profession by:

1. Acting in a professional manner at home, at work and in community activities.
2. Speaking proudly of the engineering works that are being accomplished in all areas of activity.
3. Publicizing the standards of the individual engineer as well as the entire profession. We urge all engineers to read this well written article.

Some of the things mentioned above can and should be accomplished in an individual manner but others need the strength of organization. We have such an organization in N.S.P.E.; so, beyond acting and thinking as a PROFESSIONAL ENGINEER individually, let's project our thoughts, actions and support to the National level. Slowly but surely the country is becoming aware of the important role that engineers are playing in the progress of the Nation. Take pride in the fact that you are a part of this increasingly important group.

Personals

Robert Wallace of the Chicago Chapter was in Springfield during most of the last session of the State Legislature. He was actively advising the legislators on legislation pertaining to engineering matters, Superhighway matters, and Motor Fuel Tax matters.

Jim Jun, who worked with the Department of Subways and Superhighways for many years, is now associated with Robert R. Anderson Co., General Contractor.

Frank Edwards gave a talk on June 25 at the Annual Meeting of the American Society for Engineering Education in East Lansing, Michigan on the subject "Making the Civil Engineering Student More Professionally Induced."

Elmert Feisenheiser is in charge of an Investigation in the Design of Multi-story Apartment Dwellings for the Division of Housing Research of the Housing and Home Finance Agency. The investigation is being made in an attempt to lower the costs of multi-story dwellings. Methods of construction, methods of design and the possibility of using new materials are under consideration.

September Meeting

Mark your calendar for the September 4th meeting of the Chicago Chapter and get the "low down" on color television. Maybe the speaker will bring some samples. Notice of the meeting will be sent to all Chicago Chapter members.

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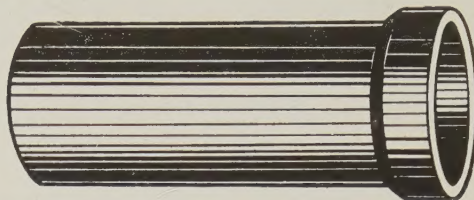
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MEN AVAILABLE

Equipment engineer or consultant, M.E. 68. Seven yrs. analyzing production methods, equipment and facilities. Ten yrs. consulting on electro mechanical products and equipment from control devices up to heavy presses. Nine yrs. Chief Engineer developing and designing machinery used in bottling plants. \$10,000. Chicago. 126-PE

Design and Development engineer, M.E. 27. Ten months production supervisor in manufacture of pens and pencils, covering metal and plastic working, printing and lacquering. Ordering parts, tools and supplies, also design jig, fixtures, tools and special machinery. \$4200. Midwest. 127-PE

Construction Superintendent. Twenty-one yrs. in steel mills working from gas washer foreman up to general foreman of open hearth furnaces and covering construction and maintenance of furnaces and auxiliary equipment. \$7,000. Midwest. 128-PE

Factory Manager, M.E. 36. Five and a half yrs. plant engr. for bakery in charge of all engineering, maintenance and construction. Eleven mos. a production statistical engineering. Two yrs. plastics engineering, designing, estimating, casting and sales of plastic products. One yr. drafting and estimating steel and welding for heavy machinery. \$7,000. Chicago. 129-PE

Sales or Plant Engineer, M.E. 29. Four yrs. with meter mfr. supervising field service and installation, calibration, contract engineering, proposal writing and estimates, and application work. One yr. as mechanical and maintenance engineering with steel mill: and three mos. drafting on machine tools. \$4800. Midwest. 130-PE

Chief Electrical Engineer, E.E. 40. Two yrs. engineering coordinator with complete responsibility of engineering department mfg. electrical control equipment. Thirteen yrs. design and development of controls for Diesel electric locomotives, printing equipment, and welding apparatus. One and a half yrs. utility power plant operator. \$10,000. Midwest. 132-PE

Chief or Plant Engineer, E.E. 35. One and a half yrs. chief electrical engineer designing hydraulic power plants. One and a half yrs. in charge of design of utility sub-stations, commercial building and industrial plants electrical work. Six yrs. with electric utility from power house tester up to starting en-

gineer coordinating equipment and circuits with operating practices. \$10,000. Midwest. 132-PE

Plant Engineer, E.E. 26. Three and a half yrs. designing, laying out and installing electrical equipment for refinery including control, lighting, and communication systems. \$5200. Midwest. 133-PE

Chief or Development Engineer, M.S.M.E. 28. Nine mos. chief development engineer on cooling and forced air units, finned coil and blower assemblies and similar equipment. Two and a half yrs. application engr. on ice machines, and air conditioning systems. Six mos. liaison engineering work on refrigeration units. \$7200. Midwest. 134-PE

Sales Engineer, M.E. 24. Eleven mos. as sales trainee with mfr. of small electric motors. Handled job and sales correspondence in order dept. \$3600. Chicago. 135-PE

Sales or Safety Engineer, M.E. 33. Three yrs. industrial hygiene engineer visiting industrial plants for health hazards. Almost two yrs. sales engr. on heat exchangers and allied products. One and a half yrs. estimating and preparing proposals for industrial boilers and auxiliary equipment. Six mos. sales engineer for heat exchangers and condensers. \$4800. Chicago. 136-PE

Sales Engineer, M.E. 34. Ten yrs. selling and servicing industrial lubricants for a major oil co. Two yrs. in product engineering of machine tools. Has had some Diesel training. \$7500. Midwest. 137-PE

Plastics Processing Eng., Gen.E.-M.E. 29. Two and a fourth yrs. processing and trouble shooting in fabrication of laminated sheet thermoplastics. Chgo. \$350 mo. 138-PE

POSITIONS AVAILABLE

Project Engineer. Age: up to 38. 1 or more yrs. exp. in power plant design or construction. Knowledge of power plant equipment. Actual duties will be designing panels for power plant cons. Location: Chicago. Salary: \$90-\$140 week. R-7994

Development & Design Engineers. Education required is grad. in E.E. 7 or more years exp. in electronics & servo-mechanisms, also need good design & development engineer on circuit work on electronic equipment and devices. Also good development and design on radar and guided missiles. All work on government projects. Location: Chicago. Salary: \$6000-\$7000. R-7995

Industrial Engineer. Age: 30-50. 3 or more yrs. exp. in warehousing or distribution fields. Knowledge of methods, plant layout. Actual duties will be establishing method standards, and controls for 16 warehouses located in a number of states east of Rockies. Will pay fee. Location: Missouri. Salary: up to \$12,000. T-7996(a)

Job Evaluation and/or Wage Administration. Age: up to 45. 3 or more yrs. exp. personnel, industrial relations, or salary administration. Knowledge of job evaluation and job analysis. Actual duties will be maintaining and revising job evaluation plan, wage studies, and recommendation regarding government orders on salaries. Also research on incentive plans. Location: Missouri. Salary: \$400-\$800. T-7996(b)

Plant Layout—Jr. & Sr. Actual Duties will be developing floor plans showing location of machine, storage areas, material handling equipment and other facilities to obtain maximum prod. Location: Chicago. Salary: \$4200-\$6200 year. R-7997(a)

Planning Engineer. Experience required being used to obtaining factual data and making recommendations. Knowledge of sheet metal fabrication. Actual duties will be making investigations of current manufacturing, maintenance, and construction problems to increase prod., reduce costs and improve oper. Location: Chicago. Salary: up to \$6600 year. R-7997(b)

Machine Des. & Est. Able to make neat proposal drawings and prepare preliminary designs. Knowledge of paper mill equipment and heavy machinery desirable. Will estimate weights of parts to determine cost for preliminary proposal designs. Location: Wisconsin. Salary: \$400-\$450 month. T-7998

Development Eng. Education required M.E. or Chem. Eng. Age: up to 45. 4-5 yrs. exp. in development of heat transfer or heat exchange equip. Knowledge of thermodynamics at advanced level. Actual duties will be development and analysis of heat treatment equipment. Location: Southwestern Chicago. Salary: up to \$7200 year. R-7999(a)

Machinery Design. Education required M.E. Age: 35-45. 4-5 yrs. exp. in special machine design. Knowledge of basic structural materials. Actual duties will be designing mechanisms for unusual operating conditions. Location: Southwest Chicago. Salary: up to \$7000 year. R-7999(b)